

# INTERNATIONAL SEARCH REPORT

International Application No  
PC1/GB2004/003420

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06F1/32 G06F3/00 H03K17/955

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/68044 A (AUTOMOTIVE SYSTEMS LAB) 16 November 2000 (2000-11-16) page 2, line 27 - page 3, line 22; figures 1,2a,7	1-39
Y	WO 02/065904 A (CORDLESS ANTISTATIC RES INC ; BATKIN IZMAIL (CA); BRUN DEL RE RICCARDO) 29 August 2002 (2002-08-29) page 16, line 9 - line 16; figure 1A	1-39
A	US 2002/175814 A1 (GIFFONE RALPH ET AL) 28 November 2002 (2002-11-28) claim 1; figure 1	1-39
A	WO 98/07051 A (ALLIED SIGNAL INC) 19 February 1998 (1998-02-19) claim 1; figure 3	1-39
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

2 December 2004

Date of mailing of the international search report

08/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Kirsten, K

# INTERNATIONAL SEARCH REPORT

Inter. Application No  
PCT/GB2004/003420

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 923 267 A (KIP ALBART J ET AL) 13 July 1999 (1999-07-13) cited in the application figures 1,3a -----	1-39
A	US 6 517 106 B1 (STOPPER JR ROBERT A ET AL) 11 February 2003 (2003-02-11) claim 1; figure 1 -----	1-39
A	US 5 801 340 A (PETER WALTER H) 1 September 1998 (1998-09-01) claim 1; figures 1,3a -----	1-39

# INTERNATIONAL SEARCH REPORT

Inter Application No  
PCT/GB2004/003420

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0068044	A	16-11-2000	DE 19983956 T0	12-12-2002
			EP 1104366 A1	06-06-2001
			EP 1140574 A1	10-10-2001
			EP 1140575 A1	10-10-2001
			EP 1140576 A1	10-10-2001
			EP 1373030 A1	02-01-2004
			JP 2002533696 T	08-10-2002
			JP 2002533697 T	08-10-2002
			JP 2002533259 T	08-10-2002
			JP 2003520344 T	02-07-2003
			JP 2002534306 T	15-10-2002
			JP 2002544495 T	24-12-2002
			WO 0068044 A1	16-11-2000
			WO 0038956 A1	06-07-2000
			WO 0038957 A1	06-07-2000
			WO 0038955 A1	06-07-2000
			WO 0038958 A1	06-07-2000
			WO 0038959 A1	06-07-2000
			US 2003009273 A1	09-01-2003
			US 6563231 B1	13-05-2003
			US 6577023 B1	10-06-2003
			US 6517106 B1	11-02-2003
			US 6520535 B1	18-02-2003
			US 6283504 B1	04-09-2001
			US 6378900 B1	30-04-2002
			EP 1112502 A1	04-07-2001
			JP 2003504624 T	04-02-2003
			WO 0104648 A1	18-01-2001
			US 6392542 B1	21-05-2002
			EP 1078341 A1	28-02-2001
			EP 1159715 A2	05-12-2001
			JP 2002538469 A	12-11-2002
			JP 2003505675 T	12-02-2003
			WO 0052657 A1	08-09-2000
			WO 0106472 A2	25-01-2001
			US 6348862 B1	19-02-2002
			US 6445294 B1	03-09-2002
WO 02065904	A	29-08-2002	WO 02065904 A1	29-08-2002
			WO 02065905 A1	29-08-2002
			CA 2438683 A1	29-08-2002
			US 2004073104 A1	15-04-2004
US 2002175814	A1	28-11-2002	US 2004085206 A1	06-05-2004
			BR 0207029 A	22-06-2004
			CA 2437465 A1	15-08-2002
			EP 1360668 A2	12-11-2003
			JP 2004524526 T	12-08-2004
			WO 02063582 A2	15-08-2002
WO 9807051	A	19-02-1998	WO 9807051 A1	19-02-1998
US 5923267	A	13-07-1999	US 5844500 A	01-12-1998
US 6517106	B1	11-02-2003	US 2002003345 A1	10-01-2002
			DE 19983956 T0	12-12-2002
			EP 1140574 A1	10-10-2001
			EP 1140575 A1	10-10-2001

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/003420

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 6517106	B1	EP 1140576 A1	10-10-2001	
		EP 1373030 A1	02-01-2004	
		JP 2002533696 T	08-10-2002	
		JP 2002533697 T	08-10-2002	
		JP 2002533259 T	08-10-2002	
		JP 2003520344 T	02-07-2003	
		JP 2002534306 T	15-10-2002	
		WO 0038956 A1	06-07-2000	
		WO 0038957 A1	06-07-2000	
		WO 0038955 A1	06-07-2000	
		WO 0038958 A1	06-07-2000	
		WO 0038959 A1	06-07-2000	
		US 2003009273 A1	09-01-2003	
		US 6563231 B1	13-05-2003	
		US 6577023 B1	10-06-2003	
		US 6520535 B1	18-02-2003	
		US 6283504 B1	04-09-2001	
		EP 1104366 A1	06-06-2001	
		JP 2002544495 T	24-12-2002	
		WO 0068044 A1	16-11-2000	
		US 6378900 B1	30-04-2002	
		EP 1112502 A1	04-07-2001	
		JP 2003504624 T	04-02-2003	
		WO 0104648 A1	18-01-2001	
		US 6392542 B1	21-05-2002	
US 5801340	A	01-09-1998	BR 9608652 A	07-12-1999
			CA 2226016 A1	16-01-1997
			EP 0885434 A1	23-12-1998
			EP 0977363 A2	02-02-2000
			JP 2000513864 T	17-10-2000
			WO 9701835 A1	16-01-1997